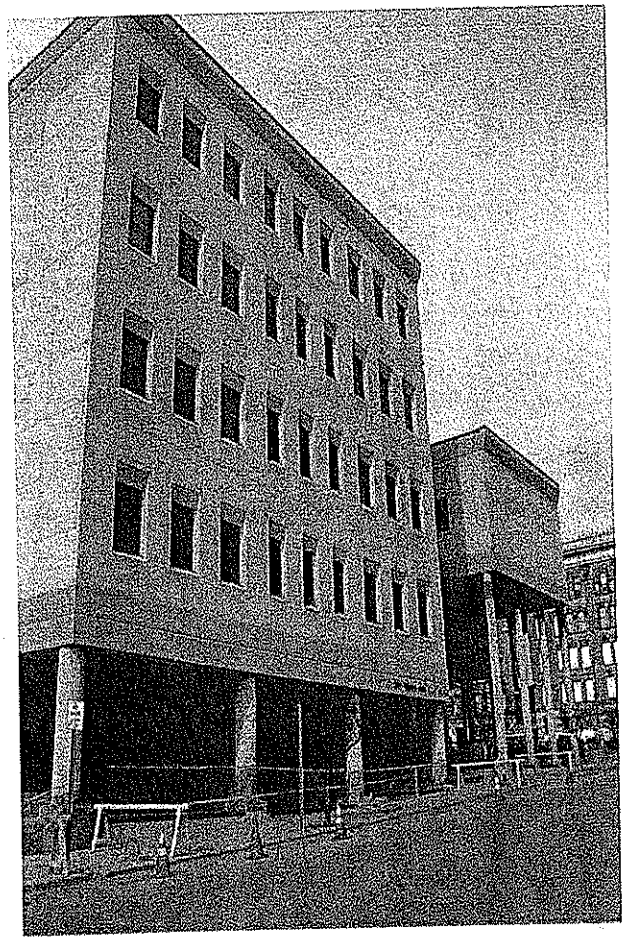
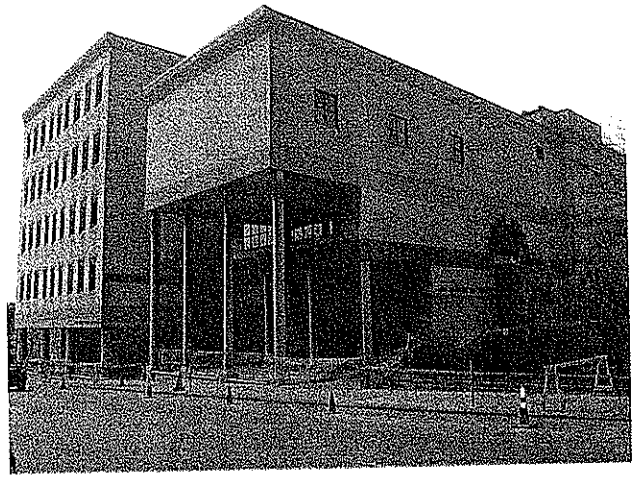
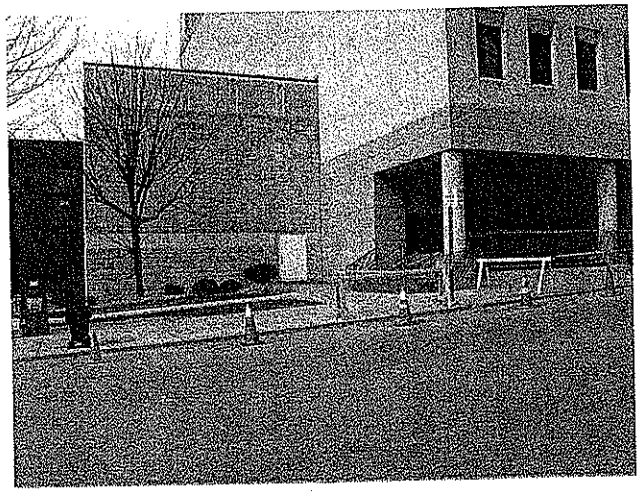
West Virginia Division of General Services
RFQ #GSD096445
ARCHITECTURAL AND ENGINEERING SERVICES
April 14, 2009

EXPRESSION OF INTEREST







ALPHA
ASSOCIATES, INCORPORATED

ARCHITECTS • ENGINEERS • SURVEYORS

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER	PAGE
GSD096445	1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
KRISTA FERRELL
304-558-2596

VENDOR
RFQ COPY
TYPE NAME/ADDRESS HERE

SHIP TO
DEPARTMENT OF ADMINISTRATION
GENERAL SERVICES DIVISION
BLDG 21 - ARCH MOORE COMPLEX
109 ADAMS STREET
FAIRMONT WV
26554 304-558-2317

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B	FREIGHT TERMS
03/18/2009				

BID OPENING DATE: 04/14/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-07		

A&E SERVICES: DESIGN OF FAIRMONT BLDG DEMOLITION

EXPRESSION OF INTEREST (EOI)
PROFESSIONAL ARCHITECTURAL/ENGINEERING SERVICES

THE WEST VIRGINIA STATE PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF GENERAL SERVICES, IS SOLICITING BIDS TO PROVIDE THE AGENCY WITH ARCHITECTURAL AND ENGINEERING SERVICES FOR THE DEMOLITION OF BUILDING #21 LOCATED IN FAIRMONT, WEST VIRGINIA PER THE ATTACHED SPECIFICATIONS.

TECHNICAL QUESTIONS CONCERNING THIS PROJECT MUST BE SUBMITTED IN WRITING TO KRISTA FERRELL IN THE WEST VIRGINIA STATE PURCHASING DIVISION VIA FAX AT 304-558-4115 OR VIA EMAIL AT KRISTA.S.FERRELL@WV.GOV. DEADLINE FOR ALL TECHNICAL QUESTIONS IS MARCH 31, 2009 AT THE CLOSE OF BUSINESS. ALL TECHNICAL QUESTIONS RECEIVED, IF ANY, WILL BE ANSWERED BY ADDENDUM AFTER THE DEADLINE HAS LAPSED.

QUESTIONS CONCERNING THE ACTUAL PROCESS BY WHICH A FIRM MAY SUBMIT AN EXPRESSION OF INTEREST TO THE STATE OF WEST VIRGINIA ARE NOT CONSIDERED TO BE TECHNICAL QUESTION AND MAY BE SUBMITTED AT ANY TIME PRIOR TO THE BID OPENING AND IN ANY FORMAT.

EXHIBIT 10

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE [signature] TELEPHONE 304-296-8216 DATE 04/20/09

TITLE President and COO FEIN 55-0516286 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER	PAGE
GSD096445	2

ADDRESS CORRESPONDENCE TO ATTENTION OF:
KRISTA FERRELL
304-558-2596

VENDOR
RFQ COPY
TYPE NAME/ADDRESS HERE

SHIP TO
DEPARTMENT OF ADMINISTRATION
GENERAL SERVICES DIVISION
BLDG 21 - ARCH MOORE COMPLEX
109 ADAMS STREET
FAIRMONT WV
26554 304-558-2317

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
03/18/2009				

BID OPENING DATE: 04/14/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT

REQUISITION NO.: GSD096445

ADDENDUM ACKNOWLEDGEMENT

I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO M PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.

ADDENDUM NO.'S:

NO. 1 X

NO. 2

NO. 3

NO. 4

NO. 5

I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.

VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.

SIGNATURE

Alpha Associates, Incorporated
COMPANY

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
	304-296-8216	04/20/09

TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
President and COO	55-0516286	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER	PAGE
GSD096445	3

ADDRESS CORRESPONDENCE TO ATTENTION OF:
KRISTA FERRELL
304-558-2596

VENDOR
RFQ COPY
TYPE NAME/ADDRESS HERE

SHIP TO
DEPARTMENT OF ADMINISTRATION
GENERAL SERVICES DIVISION
BLDG 21 - ARCH MOORE COMPLEX
109 ADAMS STREET
FAIRMONT WV
26554 304-558-2317

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
03/18/2009				

BID OPENING DATE: 04/14/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT

April 20, 2009
DATE

REV. 11/96

NOTICE

A SIGNED EOI MUST BE SUBMITTED TO:

DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
BUILDING 15
2019 WASHINGTON STREET, EAST
CHARLESTON, WV 25305-0130

THE EOI SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE EOI MAY NOT BE CONSIDERED:

SEALED EOI

BUYER: KRISTA FERRELL-FILE 21

EOI. NO.: GSD096445

EOI OPENING DATE: 04/14/2009

EOI OPENING TIME: 1:30 PM

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
[signature]	304-296-8216	04/20/09

TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
President & COO	55-0516286	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER	PAGE
GSD096445	4

ADDRESS CORRESPONDENCE TO ATTENTION OF:
KRISTA FERRELL
304-558-2596

VENDOR
RFQ COPY
TYPE NAME/ADDRESS HERE

SHIP TO
DEPARTMENT OF ADMINISTRATION
GENERAL SERVICES DIVISION
BLDG 21 - ARCH MOORE COMPLEX
109 ADAMS STREET
FAIRMONT WV
26554 304-558-2317

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
03/18/2009				

BID OPENING DATE: 04/14/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT

PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR EOI:

304-296-8245

CONTACT PERSON (PLEASE PRINT CLEARLY):

Richard A. Colebank, PE, PS - President and COO

****** THIS IS THE END OF RFQ GSD096445 ****** TOTAL:

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE [signature] TELEPHONE 304-296-8216 DATE 04/20/09

TITLE President and COO FEIN 55-0516286 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

RFQ No. GSD096445

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

VENDOR OWING A DEBT TO THE STATE:
West Virginia Code §5A-3-10a provides that: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:
If this is a solicitation for a public improvement construction contract, the vendor, by its signature below, affirms that it has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the ***West Virginia Code***. The vendor **must** make said affirmation with its bid submission. Further, public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the ***West Virginia Code*** and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the ***West Virginia Code*** may take place before their work on the public improvement is begun.

ANTITRUST:
In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

LICENSING:
Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:
The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf.

Under penalty of law for false swearing (***West Virginia Code*** §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

Vendor's Name: Alpha Associates, Incorporated

Authorized Signature: _____ Date: April 20, 2009

Purchasing Affidavit (Revised 01/01/09) President and COO

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER	PAGE
GSD096445	1

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GENERAL SERVICES DIVISION
BLDG 21 - ARCH MOORE COMPLEX
109 ADAMS STREET
FAIRMONT WV
26554 304-558-2317

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
04/13/2009				

BID OPENING DATE: 04/21/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
				ADDENDUM NO. 1		
				THIS ADDENDUM IS ISSUED TO:		
				1.) ANSWER ALL TECHNICAL QUESTIONS RECEIVED PRIOR TO THE DEADLINE AND		
				2.) EXTEND THE BID OPENING DATE		
				BID OPENING DATE IS EXTENDED TO: 04/21/2009 BID OPENING TIME REMAINS: 1:30PM		
				********** END ADDENDUM NO. 1 **********		
0001	1	LS		906-07		
				A&E SERVICES: DESIGN OF FAIRMONT BLDG DEMOLITION		
				****** THIS IS THE END OF RFQ GSD096445 ****** TOTAL:		

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE [signature] TELEPHONE 304-296-8216 DATE 04/20/09

TITLE President and COO FEIN 55-0516286 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

ALPHA
ASSOCIATES, INCORPORATED

ARCHITECTS • ENGINEERS • SURVEYORS

April 14, 2009

Purchasing Division
2019 Washington Street, East
Charleston, WV 25305-0130

Attn: Krista Ferrell, Buyer Supervisor

Re: Expression of Interest #GSD096445 – Demolition of WV State Office Building

Dear Ms. Ferrell,

Alpha Associates, Incorporated is pleased to submit this Expression of Interest to provide demolition design services for the demolition of the West Virginia State Office Building in Fairmont, West Virginia.

Alpha has recent experience with projects similar in nature to this one. Currently, Alpha is working on a project for the Monongalia County Commission that involves the demolition of two buildings. We are also working with Monongalia General Hospital to provide the site design for a new office complex. This design includes the demolition of three buildings. Let us put this knowledge and experience to work for you. We have also been selected for the design of a new State Office building that requires a major demolition project.

Alpha's Corporate Office in Morgantown, WV will provide the architectural and engineering services required to successfully complete your building demolition. We will utilize Apex Companies, located in Rockville, MD to provide hazardous waste consulting services. Alpha and Apex have worked together on many projects, and are very familiar with one another. Resumes for the key personnel who will be providing the work for this project are included in this Expression of Interest.

Alpha is looking forward to working with the General Services Division on another project. We want to be the firm you choose for the building demolition and are confident that we have the right team for the project.

Sincerely,

ALPHA ASSOCIATES, INCORPORATED

Richard A. Colebank, PE, PS
President and COO
rcolebank@alphaaec.com

209 PRAIRIE AVENUE • MORGANTOWN, WV 26501
PHONE: 304 • 296 • 8216 • FAX: 304 • 296 • 8216 • TOLL FREE: 800 • 640 • 8216 • email: alpha@alphaaec.com • www.alphaaec.com

Project Approach

Alpha Associates, Incorporated

Alpha Associates, Incorporated along with Apex Companies has the ability to complete all aspects of your building demolition project. We are familiar with the building site and its surroundings. Alpha's Corporate Office is 20 minutes from the site. Being this close to the site will prove to be an added benefit for the project.

SCOPE OF WORK

Alpha's project approach would include utilization of existing drawings as available. If existing drawings are not available or need to be supplemented, then quick measured drawings would be developed outlining critical areas. We anticipate the Scope of Work to include the following:

- Hazardous materials inspection to be performed, complete with laboratory testing to develop a materials removal plan
- Consultation with City Authorities to determine issues and concerns including traffic
- Consultation with utility companies to achieve required shut offs and disconnections
- Development of Demolition Phasing Plan that addresses protection of adjacent property
- Review of any and all existing structural evaluations that may exist for the building
- Develop a plan for removing structure while maintaining the integrity of the adjacent building
- Provide a structural report detailing any unusual or critical structural issues that the contractor should be made aware of
- Develop documents that holds demolition contractor responsible for means and methods, while at the same time provides cautionary information for phasing demolition to minimize disruption to traffic and adjacent properties
- Provide Bidding and Bid Evaluation Services

- Provide site inspections and consultations with successful demolition contractor to ensure means and methods are accomplishing a safe tear-down procedure, as well as customary construction administration services.

SCHEDULE

The schedule required for this project is anticipated as follows:

Begin Demolition Design	0 Weeks
Conduct Hazardous Materials Inspections	3 Weeks
Collect All Available Information	4 Weeks
Perform Structural Evaluations	2 Weeks
Prepare Structural Report	4 Weeks
Prepare Demolition Plan	4 Weeks
Bid Project	4 Weeks
Construction Demolition	16 Weeks
Total Project	37 Weeks

The above schedule is based on a normal schedule. A fast track schedule can be done to accomplish the project in approximately 30 Weeks.

Firm Profile

Alpha Associates, Incorporated

Firm Name: **Alpha Associates, Incorporated**

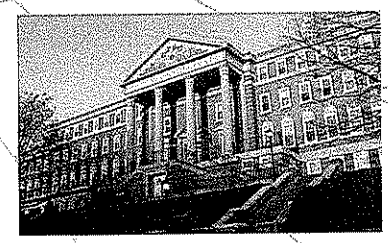
Corporate Office: 209 Prairie Avenue
Morgantown, West Virginia 26501

Eastern Regional Office: 535 West King Street
Martinsburg, West Virginia 25401

Incorporated: 1969; Morgantown, West Virginia

Firm Principals: Richard A. Colebank, PE, PS; President and COO
Richard W. Klein, PE, PS; Chairman and CEO
William A. Atwell, Jr., PE; Senior Vice President
James A. Davison, AIA; Vice President
Charles B. Luttrell, PE; Principal
Steven V. Buchanan, PE, PS; Principal
Matthew S. Breakey, AIA; Principal
Charles B. Branch, PE; Principal

Number of Employees: 35 Employees



Alpha Associates, Incorporated was established in 1969 and since that time has completed hundreds of projects throughout Morgantown and the state of West Virginia. Alpha's Corporate Office is located in Morgantown with our Eastern Regional Office located in Martinsburg.

ALPHA
ASSOCIATES, INCORPORATED

WHO IS APEX

Apex Companies, LLC is one of the largest environmental services firms headquartered in the Washington, DC area. With division offices nationwide, the current staff encompasses over 300 employees.

Apex offers comprehensive environmental assessment and remediation services and health and safety support to both government and private sector clients. Apex has performed environmental and health and safety services at over 50 federal facilities nationwide and in over 100 foreign countries. Health and safety services include asbestos and lead abatement management, compliance assessments and training, CAA Title V permitting, site health and safety plans, decommissioning and decontamination support, and hazardous waste management.

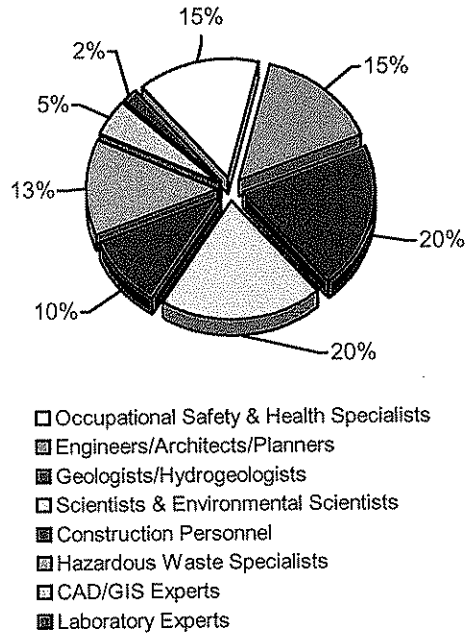
Apex's environmental services range from due diligence assessments and litigation support to Phase II and Phase III investigations. In addition, remediation construction services support underground storage tank removal and installation, as well as design and installation of various remediation systems. Apex also provides program management services, including energy program assessment and environmental data management support.

PERSONNEL CREDENTIALS

Apex recognizes the importance of obtaining professional certifications and registrations where they exist as evidence of technical excellence. Such credentials, summarized below, together with a solid and diversified experience base, are important qualifications to consider when selecting a firm for environmental services.

- Certified Industrial Hygienists
- Professional Engineers
- Certified Hazardous Waste Site Investigators and Supervisors
- Certified Energy Managers
- Certified Professional Geologists
- Certified Safety Professionals
- Certified Hazardous Materials Managers
- Registered Environmental Site Assessors
- Certified Bacteria and Lead-in-Water Sampling Technicians
- Radon Measurement Proficiency Technicians
- Accredited Asbestos Inspectors, Management Planners, and Abatement Designers
- Manufacturer-Certified Underground Storage Tank Installers
- Certified Lead Inspectors and Supervisors
- Construction Managers
- Registered Landscape Architects

Distribution of Apex Professional Staff



Corporate Office - 15850 Crabbs Branch Way, Suite 200, Rockville, MD 20855 (301) 417-0200 / (301) 975-0169 Fax
Visit our web site at http://www.apexcos.com

Demolition Case Studies

Project Description

Mon County Walnut Street Building Demolition Morgantown, WV

Alpha Associates, Incorporated provided professional design services for the demolition and removal of two buildings owned by the Monongalia County Commission. Planning included the avoidance of the PRT overhead structure, which is in the air rights above.

The first building, the Walnut Street Maintenance Building, involves the demolition and removal of a two story concrete block building. The foot print is approximately 31' x 86'.

The second building, the Walnut Street Solid Waste Authority Building, involves the demolition and removal of a one story brick and block building. The foot print is approximately 20' x 21'.

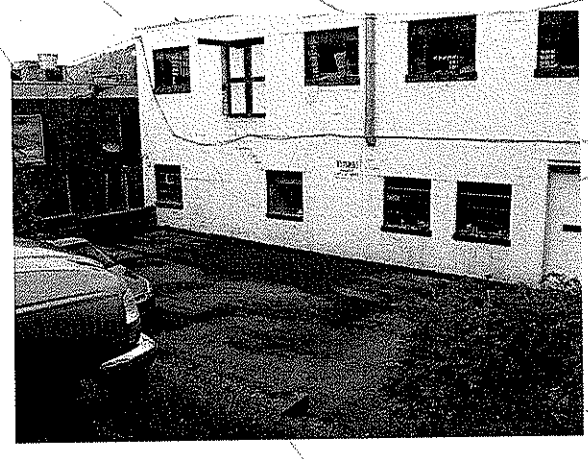
Both Buildings included a hazardous materials evaluation and required asbestos removal.

At A Glance...

1. *Client*: Monongalia County Commission
2. *Location*: Morgantown, WV
3. *Completion Date*: 2009
4. *Size*: 2 Buildings
5. *Demolition Cost*: $48,000

Reference:

Robert Doyle
Director of Facilities
County Courthouse
Morgantown, WV 26505
304-291-7257



ALPHA ASSOCIATES, INCORPORATED

ARCHITECTS • ENGINEERS • SURVEYORS

Civil Engineering Case Studies

Project Description

Monongalia General Medical Office Complex Site Work
Morgantown, WV

Alpha Associates, Incorporated provided professional engineering services for the site of the new medical office complex for Monongalia General Hospital.

The project included coordination of hazardous materials evaluation performed by the owner's contractor, removal of asbestos and demolition of two houses and a two story office building. The demolition is currently underway.

The construction will include site work required for approximately 160,000 square feet of medical office building and associated parking.

At A Glance...

1. *Client*: Monongalia General Hospital
2. *Location*: Morgantown, WV
3. *Completion Date*: 2009
4. *Size*: 3.25 Acres
5. *Construction Cost*: $797,000
6. *Project Relevance:*
   - Demolition
   - Installation of Erosion and Sediment Control Features
   - Site Lighting
   - Site Landscape
   - Grading
   - Storm Water Management

Reference:

Steve Mariner
Vice President
1200 J.D. Anderson Drive
Morgantown, WV 26505
304-598-1203

Higher Education Case Studies

Project Description

West Virginia University-Stalnaker Hall
Morgantown, WV

The original center section of Stalnaker Hall was completed in 1919, with two additional wings added in 1939. This renovation project replaced dormitory-style quarters with suites containing 306 bedrooms and shared living space. The food services area of Stalnaker Hall also underwent renovations. Alpha Associates, Incorporated teamed with a national A/E firm to provide civil engineering, structural engineering and construction administration. The 95,000 square foot project included the following: restoration/reconstruction of entire building, ADA parking area, ADA ramps, new sidewalks and steps, handrails and landscaping, asbestos abatement, skylights, new roof, elevator, window replacement.

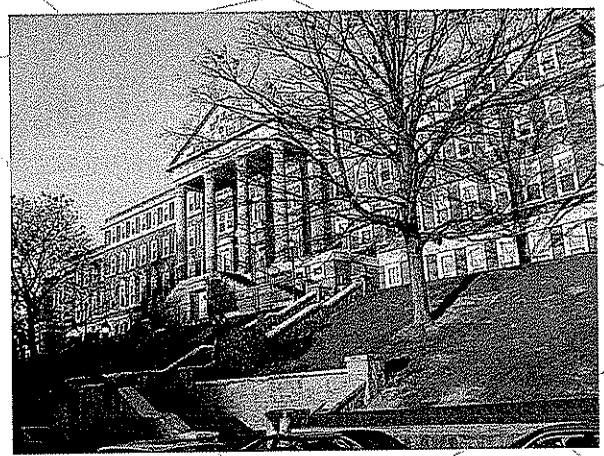
This building required extensive demolition, including demolition of all rooms and load bearing walls on both the North and South wings. The center wing included complete gutting of all floors with only the exterior wall remaining. This project also included underpinning of the existing structure to add basement space.

At A Glance...

1. *Client*: West Virginia University
2. *Location*: Morgantown, WV
3. *Completion Date*: 1993
4. *Size*: 95,000 SF
5. *Construction Cost*: $12 Million

Reference:

Charlie Robison
Contract Specialist
West Virginia University
979 Rawley Lane
Morgantown, WV 26506
304-293-5280



ALPHA
ASSOCIATES, INCORPORATED

Higher Education Case Studies

Project Description

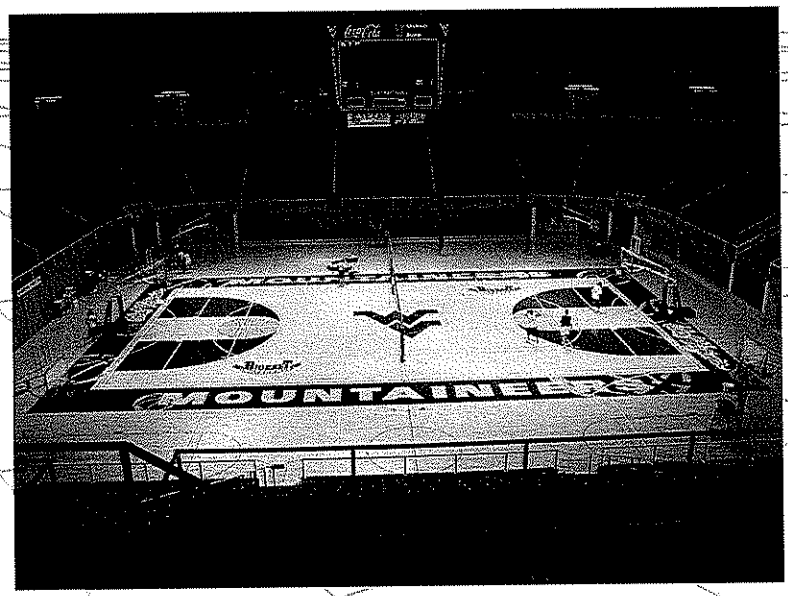
West Virginia University—Coliseum Renovation
Morgantown, WV

Alpha Associates, Incorporated provided design services as a consultant to Apex Environmental during the WVU Coliseum asbestos abatement project. Alpha provided design services for the new structural scaffold system, wood gymnasium floor, motorized bleacher system, repairs and design of ceiling replacement in the concourse area and structural inspection of the dome. Alpha also provided consultation and design services for the scoreboard structural support system.

At A Glance…

1. *Client*: West Virginia University
2. *Location*: Morgantown, WV
3. *Completion Date*: 2000
4. *Size*: N/A*
5. *Construction Cost*: N/A*

**This portion of the contract is a small part of entire project*



Reference:

Joe Fisher
West Virginia University
P.O. Box 6572
Morgantown, WV 26506
304-293-7202

ALPHA
ASSOCIATES, INCORPORATED

ARCHITECTS • ENGINEERS • SURVEYORS

Education Case Studies

Project Description

University Middle School
Morgantown, WV

Alpha Associates, Incorporated designed the renovation of the old University High School building to transform it into a middle school. The renovation includes new interior finishes, new HVAC and sprinkler systems, new roof, new entryway, and the paving of parking lots and access road to comply with ADA regulations.

The project consisted of the demolition of the 80 year old boiler heating system, removing existing wall partitions and floor coverings, and the abatement of asbestos containing materials.

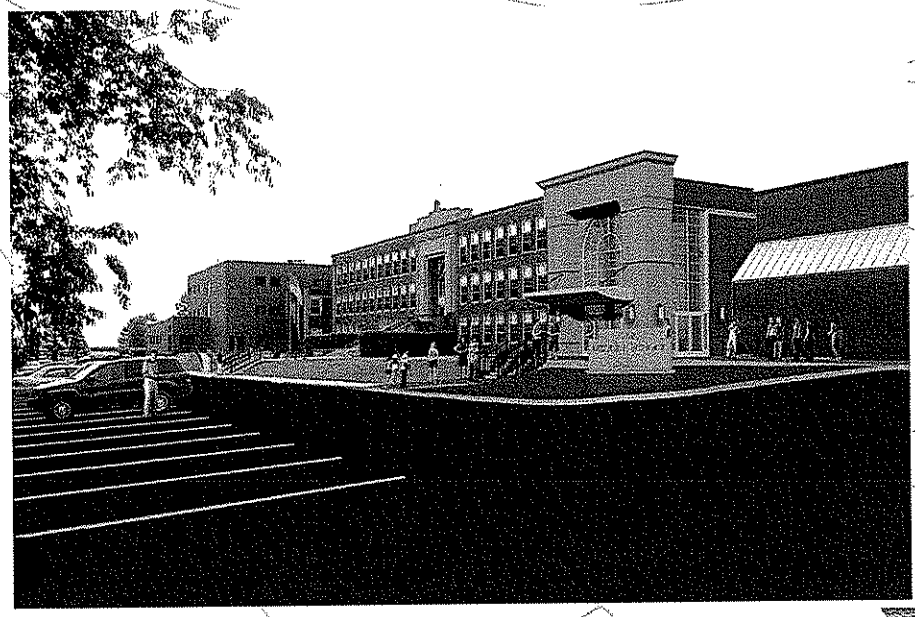
The renovation also includes relocating the administrative offices adjacent to the buildings primary entrance. The lobby addition adds a secure entry to the building during school hours to enhance student safety.

At A Glance...

1. *Client:* Mon County Board of Education
2. *Location:* Morgantown, WV
3. *Completion Date:* Est. 2009
4. *Size: N/A*
5. *Construction Cost:* $8.4 Million

Reference:

Frank Devono
Superintendent
13 South High Street
Morgantown, WV 26501
304-291-9210



ALPHA
ASSOCIATES, INCORPORATED

Martinsburg West Roundhouse
Structural Evaluation
2003

Historic Structural Case Studies

Project Description

The Martinsburg West Roundhouse
Martinsburg, WV

The Martinsburg West Roundhouse construction began in 1866. The structure was modified throughout the years to accommodate the changing needs of the B&O Railroad.

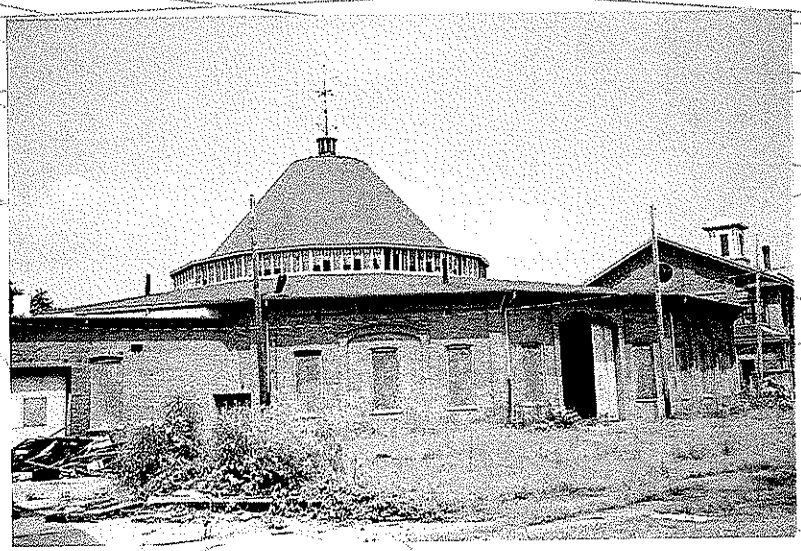
Charlie Luttrell, Alpha Associates, Incorporated Senior Structural Engineer performed an evaluation to determine the structural stability and issues of the Martinsburg West Roundhouse as related to an ongoing restoration project. Mr. Luttrell completed a report with his findings and recommendations for the building.

At A Glance...

1. Client: Berkeley County Roundhouse Authority
2. Location: Martinsburg, WV
3. Completion Date: 2003
4. Size: 25,000 square feet
5. Construction Cost: N/A

Reference:

Bill Hayes
Executive Director
P.O. Box 3084
Martinsburg, WV 24502
304-260-4141



ALPHA
ASSOCIATES, INCORPORATED

ARCHITECTS • ENGINEERS • SURVEYORS

Apex Companies, LLC
"Where Excellence Meets Value"

CLIENT NAME: *West Virginia University*
PROJECT NAME: *Asbestos Design*

PROJECT INFORMATION

Project Cost: $1M
Point of Contact: Joe Fisher, 304-293-7202
Project Location: Morgantown, WV

DESCRIPTION OF WORK

Apex provided programming, design and construction management services for the removal of asbestos from the WVU Coliseum. The Coliseum is a domed concrete structure completed in 1970 and primarily used as a sports arena, administrative offices, and classroom facility for Department of Athletics, Physical Education, and Ancillary Services. Over 130,000 sq. ft. of sprayed acoustical/thermal asbestos-containing insulation was present throughout the domed ceiling over the playing level and seating areas. Since the surface was exhibiting areas of physical damage, delamination, and was developing fissures on its surface, Apex was chosen to design and manage the removal of the asbestos-containing insulation.

During the programming stage, Apex performed a feasibility study to determine what type of corrective action would be necessary at the Coliseum. Six major options were evaluated including removal by various technologies, encapsulation, enclosure, operations and maintenance, treatment, and building replacement. Preliminary cost estimates were prepared along with recommendations for abatement technologies and operations and maintenance procedures.

Apex was then selected to prepare design documents for the abatement of the asbestos and various other capital improvement projects. Design elements included an elaborate 150' high scaffolding system, replacement of the basketball floor to NCAA standards, asbestos abatement of the dome and other areas, decontamination of mechanical rooms, renovation of concourse and office spaces, evaluation and replacement of lighting with energy efficient products, replacement of cables supporting lights and scoreboard and replacement of mechanical systems. The complete design package consisted of over 70 drawings from all major engineering disciplines. Prior to bidding, Apex pre-qualified seven bidders based on bonding capacity, insurance, prior experience, and other factors. Bids were received within 2% of Apex's cost estimate. The successful bid of approximately $7.8 million was approved and awarded by West Virginia University.

During the performance of the abatement/construction contract, Apex provided industrial hygiene and construction administration services. The project had an extremely tight schedule from March to October 2000, to coincide with the college basketball season. Apex collected over 2,500 air samples during the project, and managed all aspects of the project. The project was completed on time and under budget. Change orders, not relating to newly requested scope items were practically non-existent. Although this project received high scrutiny from EPA, local regulators, and the media, no citations or warnings were issued. The project received high praise for the level of professionalism that was exhibited during the project.

RICHARD A. COLEBANK, PE, PS
PRESIDENT AND COO
CIVIL ENGINEER
rcolebank@alphaaec.com

SUMMARY

Mr. Colebank is President and Chief Operating Officer of the firm. Mr. Colebank has been with Alpha Associates, Incorporated since 1985. He began his career with Alpha as a staff engineer and progressed through the ranks from Project Manager to his current position. Mr. Colebank has worked with diverse clients such as West Virginia University, City of Morgantown, The West Virginia Division of Highways, WVU Foundation and the Morgantown Municipal Airport, as well as numerous private clients. Since 1988, Mr. Colebank has been the Principal-In-Charge of many of the Civil Engineering projects developed at Alpha. In his current capacity, Mr. Colebank provides financial and administrative guidance for the day-to-day operations of the company while continuing to manage Civil Engineering Projects.

PROFILE

Broad-based responsibilities in the following areas:

- Project Management
- Business Operations and Financial Management
- Quality Assurance/Quality Control
- Civil Engineering Project Management and Design
- New Business Development

PROFESSIONAL HIGHLIGHTS

PRINCIPAL-IN-CHARGE

Transportation Projects:

- Morgantown Municipal Airport-IDIQ Contract; Morgantown, WV
- Route 10 Relocation; Wyoming County, WV
- South High Street Bridge Replacement; Morgantown, WV
- Blackshere Bridge Replacement; Mannington, WV
- Lewis County High School Access Road and Bridge; Weston, WV
- University Avenue/Stadium Loop; Morgantown, WV
- West Buckeye Bridge; Blacksville, WV

Civil Engineering Projects:

- Monongalia General Hospital; Morgantown, WV
- WVU Research Park; Morgantown, WV
- West Virginia Medal of Honor Recipients Plaza; Hazelton, WV
- West Virginia Division of Highways I-77 Welcome Center; Williamstown, WV
- West Virginia High Technology Consortium Site Work; Fairmont, WV
- Greystone on the Cheat through Phase II; Morgantown, WV

Indefinite Delivery/Indefinite Quantity Contracts:

- Morgantown Municipal Airport Open End Contract; Morgantown, WV
- West Virginia Division of Highways Open End Contract; State of WV
- National Energy Technology Laboratories; Morgantown, WV
- West Virginia University Open End Contract; State of WV

RICHARD A. COLEBANK, PE, PS
PRESIDENT AND COO
CIVIL ENGINEER
rcolebank@alphaaec.com

EMPLOYMENT HISTORY

PRIVATE INDUSTRY:	1985 – Present	Alpha Associates, Incorporated
	1983 – 1985	Charles Townes and Associates, P.C.
CORPS OF ENGINEERS:	1983	US Army Corps of Engineers

EDUCATION

GRADUATE: West Virginia University
Masters – Business Administration; 1999

UNDERGRADUATE: West Virginia University
BS – Civil Engineering; 1982

QUALIFICATIONS

LICENSE:
Professional Engineer:
West Virginia, Pennsylvania, Maryland, Virginia, Ohio
Professional Surveyor:
West Virginia
Certified Private Pilot

AFFILIATIONS

PROFESSIONAL:
West Virginia Society of Professional Engineers; Member
American Society of Civil Engineers; Member
National Society of Professional Engineers; Member
Former NSPE/PEPP Governor of WV
ACEC/WV; President

CIVIC:
University High School Foundation; Charter Member; Current President
Morgantown Area Chamber of Commerce; Past Chairman
Arts Monongalia Board; Member
Monongalia County MPO Technical Advisory Committee; Member
Morgantown Area Economic Partnership; Member
University High School Athletic Booster; Member
Aircraft Owners and Pilots Association (AOPA)
University High School Athletic Field Committee

CHARLES B. LUTTRELL, PE, SECB
PRINCIPAL
PROFESSIONAL ENGINEER
STRUCTURES
cluttrell@alphaaec.com

SUMMARY

Mr. Luttrell has worked with Alpha Associates, Inc. since 1996. He is the chief structural engineer for Alpha on all projects at Alpha. Before coming to Alpha, Mr. Luttrell's graduate work resulted in several contributions to the cold-formed steel deck industry. His new method of analysis for non-uniform loads on composite concrete and cold-formed steel decks has been made a permanent part of the *Steel Deck Institute's* design manual. Mr. Luttrell also worked on projects that involved pre-stressed timber bridge research with the West Virginia University Constructed Facilities Center. Since coming to Alpha, Mr. Luttrell has had a significant involvement in the effort to begin utilizing modern composite materials in practical bridge applications. Two recent Alpha bridge projects have been designed using these innovative materials.

PROFILE

Broad-based responsibilities in the following areas:

- Bridge Structural Design and Analysis
- Innovative Bridge Materials Applications
- Building Structural Design and Analysis
- Historical Restoration and Evaluations

PROFESSIONAL HIGHLIGHTS

STRUCTURAL ENGINEER:

- Hazel Ruby McQuain Amphitheater Roof, Morgantown, WV
- West Buckeye Bridge, Core, WV
- South Jefferson High School, Charles Town, WV
- WVU Coliseum Asbestos Abatement Project (Scaffolding Design and Dome Structural Inspection); Morgantown, WV
- Morgantown Airport Air Rescue and Firefighting Building; Morgantown, WV
- WVU Coliseum Scoreboard Hoist Project; Morgantown, WV

PROJECT MANAGER:

Bridge Design:

- Blackshere Bridge; Mannington, WV
- South High Street Bridge; Morgantown, WV
- Market Street Bridge; Wheeling, WV
- West Buckeye Bridge; Core, WV
- Simpson Creek Covered Bridge; Marion County, WV
- Fletcher Covered Bridge; Marion County, WV
- Elkins Bypass, Spur A Bridge; Elkins, WV

CHARLES B. LUTTRELL, PE, SECB
PRINCIPAL
PROFESSIONAL ENGINEER
STRUCTURES
cluttrell@alphaaec.com

EMPLOYMENT HISTORY

PRIVATE INDUSTRY:	1996 – Current	Alpha Associates, Incorporated
	1995 – 1996	Larry D. Luttrell, PE, Ph D
	1991 – 1994	West Virginia University
	1990 – 1991	WVU Constructed Facilities Center

EDUCATION

GRADUATE: West Virginia University
MS – Structural Engineering; 1995

UNDERGRADUATE: West Virginia University
BS – Civil Engineering; 1993

QUALIFICATIONS

LICENSE: Professional Engineer:
West Virginia, Maryland, Pennsylvania

AFFILIATIONS

PROFESSIONAL:
West Virginia Society of Professional Engineers
National Society of Professional Engineers
Chi Epsilon; Member
American Concrete Institute; Member
Structural Engineering Certification Board

RESEARCH EXPERIENCE

STRUCTURAL:

Cold Formed Steel Deck Research
- Fastener failures
- Edge conditions/failures
- Buttoned overlap shear failures

Composite Cold Formed Steel and Concrete Deck Research
- Line load behavior/failures
- Concentrated load behavior/failures
- Web crippling
- Punch failures

REBECCA J. KEY, AIA, NCIDQ
ASSOCIATE
rkey@alphaaec.com

SUMMARY

Ms. Key has worked in the architectural field for 30 years. Ms. Key is Project Architect/Manager for numerous architectural designs at Alpha Associates, Inc. She is involved from the programmatic stages and schematic designs all the way through construction documents to construction administration.

Prior to joining Alpha, Ms. Key initiated and developed her own architectural and interior design business. The 16 years she devoted to her own firm resulted in projects ranging in size from 450 to over 40,000 square feet of space and located in 20 states across the country.

PROFILE

Broad-based responsibilities in the following areas:

- Architecture
- Interior Design
- Medical Design
- Interior Space Planning
- Historic Renovation

PROFESSIONAL HIGHLIGHTS

ALPHA ASSOCIATES

Educational Facilities:

- WVU South Agricultural Sciences; Morgantown, WV
- Prichard Hall Renovation; Fairmont State College; Fairmont, WV
- Washington High School; Jefferson County, WV
- WVU CRRB Renovation, 5th and 7th Floors; Morgantown, WV
- WVU Boreman Hall, Boreman Bistro; Morgantown, WV

Financial Institutions:

- Bruceton Bank; Glenmark Centre; Morgantown, WV
- Bruceton Bank Renovation; Bruceton Mills, WV
- Centra Bank; Wharf District; Morgantown, WV

Industrial Facilities:

- Hart Field Airport Maintenance; Morgantown, WV
- Norwood Fire Station; Morgantown, WV
- FMW Composites, Inc.; Bridgeport, WV
- Hart Field Airport Terminal Renovation; Morgantown, WV

Medical Facilities:

- Ruby Memorial Hospital Emergency Addition; Morgantown, WV
- Fairmont Clinic Feasibility Study; Fairmont, WV

REBECCA J. KEY, AIA, NCIDQ
ASSOCIATE
rkey@alphaaec.com

Residential Architectural Design:
- Augusta Apartments; Morgantown, WV

Historic Renovations:
- Cass Club House; Cass, WV
- Berkeley Springs Bath House; Berkeley Springs, WV

Miscellaneous Architectural Design:
- West Virginia Medal of Honor Recipients Plaza; Hazelton, WV
- Hazel Ruby McQuain Riverfront Park Amphitheater Roof; Morgantown, WV
- Municipal Building; Whitehall, WV
- Monongalia County Family Court; Morgantown, WV

EMPLOYMENT HISTORY

PRIVATE INDUSTRY:	2000 - Current	Alpha Associates, Incorporated
	1983 – 1999	Environmental Planners and Associates, LTD; President
	1978 – 1983	Webster Clothes; Director of Store Planning

EDUCATION

UNDERGRADUATE: University of Maryland
Bachelor of Architecture; 1977

POST GRADUATE: Maryland Institute College of Art
Coursework in Furniture Design; 1986-1987

QUALIFICATIONS

LICENSE: Registered Architect
West Virginia, Maryland, Washington DC, New York, Virginia, Pennsylvania
National Council of Interior Design Qualifications Certificate Holder

AFFILIATIONS

PROFESSIONAL: American Institute of Architects; Member
AIA Liveable Communities; Board Member

CIVIC: Fairmont, WV IBC Board of Appeal; Board Member

Noah Accord, PE
STAFF ENGINEER
naccord@alphaaec.com

SUMMARY

Mr. Accord is a staff structural engineer in the Morgantown office. He obtained his Masters Degree in Structural Engineering from the University of Pittsburgh, where he graduated Summa Cum Laude. He has experience in performing structural design and civil engineering. Prior to his employment at Alpha Associates, Incorporated, he gained valuable experience working for Nicholson Construction.

PROFILE

Broad-based responsibilities in the following areas:

- Industrial Structural Inspections
- Building Design
- Bridge Design
- Site Engineering

PROFESSIONAL HIGHLIGHTS

Engineering Projects:

- WVU Alumni Center: Structural Framing and Foundation Design
- Washington High School: Structural Framing and Foundation Design
- Chemtura: Structural Steel Design
- FFCU: Structural Design
- Cass Scenic Railroad: Clubhouse Renovation
- WVU Engineering Sciences Building: Structural Design
- The Augusta Apartments: Structural Design

EMPLOYMENT HISTORY

PRIVATE INDUSTRY:	2005 – Present	Alpha Associates, Incorporated
	2003 – 2004	Nicholson Construction
	2002 – 2003	Covey Engineering
	1999 – 2001	AB Construction

EDUCATION

GRADUATE: University of Pittsburgh
Masters of Structural Engineering; 2005

UNDERGRADUATE: University of Pittsburgh
BS – Civil Engineering; 2004

QUALIFICATIONS

LICENSE: Professional Engineer
West Virginia

Peter M. Granholm, CIH, PG, REA
Program Manager

Mr. Granholm has more than eighteen years of experience in industrial hygiene, environmental health and safety related compliance and liability assessments for commercial, industrial and government sector clients. Relevant experience includes conducting employee job hazard analysis, exposure monitoring for various airborne contaminants and physical hazards, OSHA/EPA compliance audits, asbestos and lead abatement project design and management, developing Safety programs, employee training, and conducting complex and comprehensive indoor air quality (IAQ) investigations. Mr. Granholm also performs environmental regulatory compliance assessments and supervises the due diligence group, which performs environmental site assessments and liability evaluations of commercial and industrial properties. Program Management responsibilities include client management, business development, proposal writing, project financials/cost control, and supervising field staff and Project Managers.

EDUCATION

- B.S., Geology, George Mason University, 1987

PROFESSIONAL REGISTRATIONS/ CERTIFICATION/ TRAINING

- Certified Industrial Hygienist (CIH) – Comprehensive Practice (ABIH #7058)/1996
- Professional Geologist TN, License # TN3255/1993
- Professional Geologist PA, License # PG-002170-G/1995
- Registered Environmental Assessor (REA), California #05192/1993
- Certified Lead Risk Assessor, Maryland #1726/1996
- Virginia Licensed Asbestos Inspector (3303 001361)/9/30/00; Management Planner (3304 000985)/9/30/00; Project Designer (3305 000598)/11/30/00
- EPA AHERA Asbestos Inspector/Management Planner (MD-049186)/8/31/00; Project Designer (MD-050367) 11/28/00
- EPA AHERA Project Designer Recertification, 8-Hour, MD –058503, 01/23/02
- EPA AHERA Inspector/Management Planner Recertification, 8-Hour, MD-064114, Expires 11/2003
- NIOSH 582-Trained Airborne Fiber Count Analysis/12/1988
- OSHA 29 CFR 1910.120 40-Hour HAZWOPER and Supervisor/4/28/01(refresher)
- 8-Hr. HAZWOPER Refresher (11/17/01)
- EPA-HUD Accredited Lead Inspector/Risk Assessor (99-V18796)3/99 (current refresher)
- Radiation Safety Training – RAD Worker II

GENERAL EXPERIENCE

1996 - Present	**Apex Environmental, Inc., Rockville, Maryland**
Present -	***Program Manager*** - Supervise the Compliance and Due Diligence group which combines Health and Safety/Environmental Compliance Services, Industrial Hygiene, and Environmental Site Assessments.
1996 - 1998 -	***Project Manager***
1994 - 1996	**Project Manager, Dames & Moore, Bethesda, Maryland**
1991 - 1994	**Manager of Environmental Sciences, Carnow, Conibear & Associates, Ltd.**
1989 - 1991	**Project Manager, Waco, Inc.**
1988 - 1989	**Industrial Hygienist, Roche Analytics Laboratory**
1987 - 1988	**Technician/Hydrographer, Dewberry and Davis**

VOLUNTARY CLEANUP PROGRAM EXPERIENCE

Oxon Hill Dry Cleaner, Oxon Hill, Maryland. Project Manager for the site characterization and entrance of the site into the Maryland Department of the Environment Voluntary Clean-up Program (VCP). Site contamination involved chlorinated hydrocarbons from dry cleaner releases. Supervised geologists and other scientists and negotiated on behalf of the property owner with MDE in order to obtain acceptance of the site into the State Program.

Silver Hill Plaza, Forestville, Maryland. Project Manager for the site characterization and entrance of the site into the Maryland Department of the Environment Voluntary Clean-up Program (VCP). Site contamination involved chlorinated hydrocarbons from dry cleaner releases. Supervised geologists and other scientists and negotiated on behalf of the property owner with MDE in order to obtain acceptance and closure of the site in the State Program.

Meadows Park Shopping Center, Baltimore, Maryland. Project Manager for the site characterization and entrance of former dry cleaner site into the Maryland Department of the Environment Voluntary Clean-up Program (VCP). Supervised geologists and other scientists and negotiated on behalf of the property owner with MDE in order to obtain acceptance and closure of the site in the State Program.

SELECTED PROJECT EXPERIENCE

Private University, Washington, D.C. Conducted a comprehensive OSHA and EPA compliance assessment of the University's Physical Plant and Facilities Departments. Identified significant compliance issues regarding electrical safety, confined spaces, use of personal protective equipment, wastewater discharges, hazard communication, respiratory protection, asbestos, EPCRA, SPCC, blood borne pathogens, and storage tanks.

Gallaudet University, Washington, D.C. Provided emergency response Hazwoper training to university employees. Conducted a hazardous waste compliance evaluation. Developed an SPCC plan for oil storage management.

U.S. Postal Service, Baltimore District. Performed employee noise exposure monitoring at various facilities for OSHA compliance.

U.S. Department of Defense Hanford Site, Washington. Conducted industrial hygiene employee hazard assessments of over a dozen maintenance and shop facilities at the Hanford Nuclear Site. Evaluated potential employee exposures to chemical and physical agents in the workplace, and evaluated use of hazard controls; such as local exhaust ventilation, personal protective equipment, and respiratory protection. Prepared reports of each facility that identified significant employee hazards, commented on use of hazard controls, and established an industrial hygiene monitoring plan to quantify workplace exposures to chemical/physical hazards.

Printing Facility, OSHA Compliance, Baltimore, Maryland. Conducted an OSHA Health and Safety Compliance Audit of a printing facility in Baltimore, Maryland. Developed the facility's Hazard Communication Program, Respiratory Protection Program, and Hazardous Waste/Emergency Response Program. Performed indoor air quality assessments for measuring chemical exposures to workers, and evaluated the efficiency of the local exhaust/ventilation systems.

Former Manufactured Gas Plant (MGP) Site, Washington, D.C. Developed air sampling protocols and supervised worker exposure monitoring activities during development of a contaminated former MGP site. Exposure monitoring for airborne hazards included coal tar pitch volatiles (CTPV), various volatile organic compounds (VOCs), heavy metals, and associated physical hazards during earthwork, excavation, and trenching activities.

U.S. Department of Commerce N.O.A.A. office buildings in Silver Spring, Maryland. Performed a comprehensive indoor air quality investigation of the Identified a floor leveling compound in a building, which off-gassed phenol, as the source of poor indoor air, offensive odor and employee complaints.

Indoor Air Quality. Conducted approximately 50 indoor air quality investigations of occupied commercial and private buildings to identify the source(s) of employee complaints, and to assess potential exposures to air contaminants and indicators of air quality. Evaluated a wide variety of air contaminants, including molds and fungi, formaldehyde, volatile organic compounds, and particulates and provided recommendations, as necessary, for remedial action and improvement of indoor conditions.

Indoor Air Quality. Performed comprehensive indoor air quality assessments of commercial buildings in Kauai, Hawaii and government buildings in southern Florida following hurricane-related damages. Evaluated indoor air conditions for potential exposures and risks from microbiological contaminants (bioaerosols) and made recommendations for remediation of building materials contaminated with fungi and bacteria.

U.S. Postal Service. Performed Environmental, Health and Safety Compliance Audits of United States Postal Service (USPS) mail distribution and vehicle maintenance facilities located in Maryland, Connecticut, District of Columbia, West Virginia, Virginia, North Carolina, South Carolina and Kentucky. Identified significant compliance issues associated with RCRA, SARA Title III, CWA, OSHA, state and local regulations, storage tanks, and USPS Environmental Guidance Documents. Provided recommendations, as necessary, to achieve regulatory compliance and improve the health and safety of affected employees. Prioritized findings to assist the client with allocating resources to correct deficiencies.

Landfill Closure. Developed health and safety plans (HASP), spill response plan, and hazardous waste management plan for a landfill remediation and closure project at a U.S. Fish and Wildlife Service Research Center in Maryland. Managed the safety personnel in the field and evaluated air, soil, and waste sampling data to ensure employee and contractor safety.

Pipe Manufacturing Facilities, Northwest. Performed Environmental and Health and Safety Compliance Audits of PVC pipe manufacturing facilities located in California, Washington and Oregon. Evaluated compliance issues with EPA, RCRA, SARA Title III, TSCA, OSHA as well as state and local regulations. Provided recommendations, as necessary, to achieve regulatory compliance and to perform additional investigations to characterize significant existing and foreseeable environmental liabilities. Developed proposals and cost estimates to conduct additional investigations.

Major Brewery, Mid-Atlantic Region. Conducted an OSHA Health and Safety Compliance Audit of a major brewery. The health and safety programs, such as hearing conservation, respiratory protection, hazard communication, confined space entry, and others, were evaluated and appropriate recommendations were made. A review of the hazardous chemicals used and emergency response procedures for employees was also performed.

Private Sector Client, Environmental Due Diligence. Managed and coordinated Environmental Due Diligence investigations associated with the purchase of several industrial/manufacturing facilities which involved performing 32 environmental site investigations in 23 countries over a 2-week period. Site locations included industrial properties in South America, Africa, China, Japan, Europe, Turkey, Spain, Portugal and Australia. Identified potential environmental liabilities associated with the subject properties, and provided recommendations and cost estimates to correct and further evaluate potential concerns.

Metal Component Manufacturing Facility, Ohio. Conducted an Environmental Compliance Audit/Due Diligence Assessment of a metal component manufacturing facility in eastern Ohio. Evaluated compliance issues with regard to EPA, RCRA, SARA Title III, TSCA, OSHA as well as state and local regulations. Provided recommendations and cost estimates, as necessary, to achieve regulatory compliance.

Other Environmental, Health and Safety Projects. Performed environmental and health and safety audits of several Federal facilities. Duties involved PCB sampling in accordance with EPA methodologies, health and safety compliance evaluations, lead paint sampling, noise surveys, hazardous waste sampling and management consulting.

- Managed environmental projects involving lead-based paint, USTs, and asbestos abatement. Duties included design of projects to meet current Federal, state, and local regulations; development of standard operating procedures for air monitoring in confined spaces and employee exposure assessment.
- Served as an Instructor for EPA/Maryland/Virginia-approved asbestos hazard evaluation training courses for supervisors and workers.

Phase I and II Environmental Assessments. Managed, reviewed or conducted over 200 environmental site assessments at commercial, industrial, manufacturing and undeveloped properties in accordance with ASTM procedures and client-specific scopes-of-work. Phase I activities include site inspections, inquiries to regulatory agencies, review of environmental data bases, assessment of nearby properties of potential concern, and report preparation with recommendations, as warranted. Developed proposals and scope-of-work for additional investigations (Phase II) to characterize potential environmental liabilities. Phase II activities include conducting soil borings to evaluate potential onsite and offsite sources of contamination, installation of groundwater monitoring wells to delineate contamination plumes, asbestos surveys, lead-based paint surveys, indoor air quality assessments, and report preparation.

AFFILIATIONS

- American Industrial Hygiene Association, Full Member
- Potomac Region American Industrial Hygiene Association
- Chesapeake Region American Industrial Hygiene Association
- American Academy of Industrial Hygiene

TECHNICAL PRESENTATIONS

Indoor Environment Conference –1997, Baltimore, MD: Gave a technical presentation at the 5th annual indoor air quality (IAQ) conference, entitled "Prevention of Indoor Air Contaminants Through Effective Building Management".

Indoor Environment Conference –1994, Washington, D.C.: Gave a technical presentation at the annual indoor air quality (IAQ) conference, entitled "The Development of an Indoor Air Sampling Strategy".

Thomas Wambach
Project Manager

Mr. Wambach has over fifteen years' experience in the environmental consulting business focusing on industrial health and safety pertaining primarily to asbestos and lead related projects. He has conducted and supervised well over 1,000 comprehensive asbestos surveys for hundreds of clients in both the government and private sector. Mr. Wambach has led inspection teams at U.S. Government owned facilities all over the world since 1991. He is responsible for managing all aspects of asbestos related work including proposals, site inspections, computer generated data and drawings, report writing, abatement specification design, cost estimating, and construction management services. Other significant responsibilities have included training new inspectors, providing asbestos awareness training, reviewing existing asbestos management plans, inspection reports, interpreting renovation project plans with regards to impacts on asbestos or other hazardous materials and providing recommendations based on findings. He has provided continuous construction management services on numerous large–scale (multi-million dollar) renovation/abatement projects for both the government and private sector. He has performed a wide variety of Phase I Environmental Site Assessments (ESAs). Additionally, he has assisted with various Phase II ESAs, remediation sites, and participated in numerous hazard evaluations involving lead-in-water, lead-in-paint, polychlorinated biphenyls (PCBs), radon, and other hazardous materials.

EDUCATION

- B.S., Earth Sciences, Frostburg State University, 1989

PROFESSIONAL REGISTRATIONS/ CERTIFICATION/ TRAINING

- RMD's LPA-1 Lead Paint Inspection System
- Asbestos Project Designer, (Refresher)
- Lead-in-Paint Inspector and Risk Assessor
- Radiation Worker II Training
- New York Department of Labor - Asbestos Inspector
- 40-hour OSHA HAZMAT, (Refresher)
- 8-Hr EPA AHERA Inspector/Management Planner Recertification, MD-067850, Expires 06/24/04
- West Virginia Certified Asbestos Project Designer, (Current)
- West Virginia Certified Asbestos Inspector /Management Planner, (Current)
- Pennsylvania Certified Asbestos Inspector
- Maryland Certified for the Collection of Drinking Water Samples (Refresher)
- Virginia Certified Asbestos Inspector, (Current)
- U.S. (EPA) Accredited Asbestos Inspector and Management Planner, (Refresher)
- National Institute of Occupational Safety and Health (NIOSH)/Proficiency Analytical Testing (PAT) Proficient for Asbestos-In-Air Analyses by Phase Contrast Microscopy (PCM)
- NIOSH 582 Equivalent Training for Asbestos-in-Air using PCM
- Asbestos Hazard Emergency Response Act (AHERA)-Accredited Asbestos Worker and Supervisor
- Maryland Certified Asbestos Training for Contractors

GENERAL EXPERIENCE

1990 to Present **Project Manager and Senior Industrial Hygienist, Apex Environmental, Inc., Rockville, Maryland.** Manages and performs numerous asbestos related projects and other hazardous building materials related projects. Performs comprehensive asbestos and lead paint building surveys, and writes asbestos inspection reports, management plans, abatement specifications, and abatement closeout reports for hundreds of different projects annually. Designs asbestos abatement project specifications and reviews contractors abatement plan submittals. Maintains Quality Check of field work and Quality Assurance of project reporting and abatement design submittals. Markets current and potential clientele. Tracks all costs of projects relating to inspections, abatement design, industrial hygiene oversight, and abatement. Manages and initiates environmental contracting projects including bid solicitation from qualified abatement contractors, and subcontracting agreements. Prepares bids and proposals for inspections, abatement specification designs, industrial hygiene monitoring, and abatement projects. Coordinates and schedules work for a staff of four to six Environmental Scientists. Other responsibilities include providing Asbestos Awareness Training, performing Phase I Environmental Site Assessments (ESAs), reviewing existing asbestos management plans and reports, interpreting renovation project plans with regards to impacts on asbestos or other hazardous materials and providing recommendations based on findings. Participates in industrial hygiene studies, evaluations, and monitoring programs involving asbestos and lead paint abatement activities, polychlorinated biphenyl (PCB) remedial actions, drinking water sampling, radon testing, avian excreta, and other hazard evaluations. Proficient asbestos microscopist by PCM.

PROJECT EXPERIENCE

U.S. Department of State. Project Manager for comprehensive asbestos surveys at U.S. Embassies in, Norway, Finland, United Kingdom, Burundi, Central African Republic, and Peru. Also provided project management and reporting for various asbestos abatement projects at U.S. embassies in Japan, Uruguay, Mexico, Germany, China, and Korea. Responsible for staffing, scheduling, and reporting for all projects including electronic updating of the asbestos database and drawings for each abatement project. Trained all new personnel using Apex's HAZcad® Environmental Management System. Performs senior level inspections and emergency response abatement oversight on an as needed basis and provides Quality Assurance for all project reporting for contract. Responsible for invoicing the projects and tracking all job-related costs.

Project Supervisor for comprehensive asbestos surveys at U.S. Embassies and Consulates in Japan, Germany, Romania, Costa Rica, Nepal, Barbados, Lithuania, Estonia, Latvia, Canada, Cuba, Jordan, Ethiopia, Trinidad, Brazil, Mexico, Zambia, Cape Verde, The Gambia, Burkina Faso, Burma, Thailand, France, and Italy. Responsible for scheduling and inspecting dozens of buildings at each site, collecting field data for computerized database reporting system, writing all reports and operations and maintenance (O&M) Plans.

U.S.P.S. – Baltimore District. Project Manager for development of scope-of-work for asbestos abatement for large-scale mechanical renovation at the Postal and Distribution Center (P&DC) in Baltimore, Maryland. Provided a specific scope-of-work for asbestos abatement to the term abatement contractor, held pre-bid and pre-construction meetings, and provided an asbestos awareness

training/meeting on site with U.S.P.S. representatives, coordinated abatement work schedule with all parties involved with project and provided construction phase management services throughout the project including all necessary industrial hygiene oversight. Also reviewed abatement contractor's applications for payment.

U.S.P.S. – Baltimore District. Project Supervisor for comprehensive surveys for asbestos, lead-in-paint, radon, and PCBs at over fifty post offices in the Baltimore District. Responsible for leading inspectors during field work, reporting, quality assurance/quality check (QA/QC) of all facets of project including field work and reporting. Responsible to identify any areas representing imminent health hazards and recommend response actions to abate hazards including abatement specification designs per USPS and applicable state requirements.

Creative Arts Center – Mathes Brierre Architects, West Virginia University. Project Manager as a subcontractor to Mathes Brierre Architects, provided inspection, design, and construction management services for the removal of asbestos-containing materials required by a large-scale (multi-million dollar) renovation project at West Virginia University's Creative Art Center (CAC) in Morgantown, West Virginia. The abatement work alone was estimated to be approximately 1.5 million dollars. Apex prepared a bid package including detailed abatement specifications and full size CAD drawings (in color w/photographs) to identify the location of all materials that would require abatement to facilitate the project SOW. Apex assisted client with coordination of pre-bid conference including responding to all requests for information (RFI). Submittals from the successful contractor were reviewed for completeness and conformance with the project specifications. Apex provided construction phase services including attendance of weekly progress meetings and provided third party industrial hygiene oversight for the full duration of abatement activities.

Correct Westside Hangers and Replace Westside Underground Deluge Piping, Andrews AFB, Maryland. As Project Manager, provided asbestos inspection and design services as a subcontractor to CETROM, Inc. The projects involved repairs and improvements to the fire protection system for west side portions of the base. Inspected all affected areas and prepared performance based specifications using the Unified Facilities Guide Specifications and SpecsIntact software program. Apex provided specifications, drawings, and cost estimates for each scheduled submission and participated in the design meetings as required. Construction phase services included review of contractor submittals and responding to any information requests. Contract value was less than 50K for both projects.

Modernization of I.R.S. Headquarters – Swanke, Hayden, Connell, Washington, D.C. As a subcontractor to Swanke, Hayden, Connell, Apex provided inspection, design, and construction phase services for the removal of asbestos-containing materials, lead-based paint, and PCBs required by the Modernization of the Internal Revenue Service Headquarters building in Washington, D.C. Apex prepared detailed specifications using the GSA format. Apex also prepared detailed CAD drawings to identify the location of all the hazardous materials that would require removal. Submittals from the successful contractor were reviewed for completeness and conformance with the project specifications. The entire construction project (including abatement) was valued in excess of 50 million dollars. Apex is providing ongoing construction management services on an as needed basis until 2006.

Mechanical System Restoration – Building 21, NASA, Greenbelt, Maryland. As a subcontractor to CETROM, Apex provided inspection and design services for the removal of asbestos-containing materials required by the restoration of mechanical systems in Building 21 at the National Aeronautics and Space Administration facility in Greenbelt, Maryland. CAD drawings were prepared to identify the location of samples collected and the materials that would require removal. Specifications were prepared using the GSA format and submittals from the successful contractor were reviewed for completeness and conformance with the project specifications.

Private University, New York State. Team Leader of a four-person team that performed asbestos surveys at a prominent east coast university. Supervised and performed surveys of all facilities on the campus comprising over 8,000,000 square feet of building space (including laboratories, dormitories, academic buildings, administrative buildings, sports arena) for asbestos-containing materials. Project spanned a period of three months. All information was gathered using hand-held computers and entered into Apex's HAZcad® Environmental Management System for retrieval by the facility engineers.

Patuxent River Naval Air Station, Lexington Park, Maryland. Project Supervisor for comprehensive asbestos surveys of 85 buildings. Supervised up to four inspectors daily for an six month period. Responsible for all survey documentation and field data collection for computerized database reporting system. Primary involvement with development of a facility-wide O&M Plan.

National Institutes of Health (NIH), Bethesda, Maryland. Project Supervisor for a comprehensive asbestos survey of a major research facility (approximately two million square feet). Supervised up to eight inspectors daily for an eight month period. Responsible for all field documentation and database management of field data for computerized database reporting system.

Sears Roebuck, East Coast. Project Supervisor for comprehensive asbestos surveys at twenty-five department stores for a nationwide renovation project.

Veteran's Administration Hospitals in Allen Park, Michigan, and Washington, D.C. Project Leader for comprehensive asbestos surveys throughout main hospital building.

U.S. Department of State. Asbestos abatement monitoring and project oversight at new U.S. Embassies in Lithuania, Latvia, Estonia, Belarus, and Paraguay.

Montgomery County Public Schools, Maryland; Charles E. Smith Companies, Virginia; and NIH. Asbestos abatement monitoring/oversight for hundreds of projects of various size and complexity.

Kaempfer Associates. Radon monitoring for properties throughout the District of Columbia.

Howard County, Maryland. Identified all sources which did not comply with EPAs Safe Drinking Water Act, and performed lead-in-water sampling and surveys for over thirty.schools.

General Services Administration (GSA). PCB sampling for transformer replacement throughout major federal facilities.

Naval Surface Warfare Center, Annapolis, Maryland. Confined space work using LEL/02 during asbestos surveys.

Numerous Phase I ESAs performed for a wide range of property transactions throughout the Mid-Atlantic region. (Clients included banks, developers, and law firms).

Participated in numerous Phase II projects involving soil borings, well water sampling, UST replacement. Used PID to help characterize potential soil contamination at various sites.

Numerous lead-in-paint surveys for renovation projects and for due diligence as part of Phase 1 ESAs .

Key team involvement with architects on numerous large renovation projects with regard to project design. Responsible to review plans (scope-of-work), coordinate inspections (asbestos, lead-in-paint, PCBs), interpret results, develop specific abatement designs, provide recommendations, cost analysis, and attend project team meetings as needed.

PROFESSIONAL AFFILIATIONS

- AIHA Full Member, (Current)

John J. Parrotta
Project Manager

Mr. Parrotta has over 9 years experience providing environmental consulting and industrial hygiene services for various clients in the Governmental, Health Care, Private, and Public Sectors. His experience includes; Environmental Site Assessments, Construction Management, UST compliance, Asbestos and Lead paint Surveys and Designs, and Hazardous Materials Abatement Project Management.

EDUCATION

- B.S., Wildlife and Fisheries Resource Management, West Virginia University, 1999.

PROFESSIONAL REGISTRATIONS/ CERTIFICATION/ TRAINING

- EPA Asbestos Project Designer
- EPA Asbestos Contractor Supervisor
- EPA AHERA Asbestos Building Inspector
- EPA Lead Paint Inspector Technician
- EPA Lead Risk Assessor
- West Virginia Asbestos Air Clearance Monitor
- NIOSH 582 Certificate
- Phase I Environmental Site Assessment Training
- RMD LPA-1 Lead Paint Inspection System Training
- OSHA 29 CFR 1910.120 HAZWOPER Supervisor

GENERAL EXPERIENCE

2004-present, Project Manager, Apex Companies, LLC. Morgantown, WV. Responsible for Project Office Management, Construction Management, Asbestos/Lead Surveys and Designs, UST compliance and Phase I Environmental Site Assessments.

2003-2004, Project Manager, Professional Services Industries, Pittsburgh, Pa. Responsible for Management of National Client Lead Based Paint program and Supervision of (4) IH Technicians.

2001-2003, Project Manager, Boggs Environmental Consultants, Morgantown, WV. Responsible for Hazardous Material Inspections, Designs and Supervision of (3) IH Technicians.

1999-2001, Environmental Scientist, Professional Services Industries, Laurel, MD. Responsible for IH services and technical report writing.

1998-1999, Forestry Technician, USDA, Morgantown, WV. Responsible for collecting and identifying insects for a gypsy moth study at the Monongahela National Forest and George Washington National Forest.

PROJECT EXPERIENCE

Environmental Site Assessments (ESA's)

Triple M. LLC, Completed Phase I ESA's conforming to ASTM standards for various commercial properties located throughout WV. Some Properties consisted of a former gasoline station, dairy factory, residential developments, and a 50,000 SF commercial warehouse in Morgantown's downtown historic district.

JBG Properties, Performed Phase I ESA's conforming to ASTM standards for various commercial properties located throughout the Washington, D.C. metro area. Properties consisted of Laboratories for government agencies that consisted of buildings with 150,000 to 300,000 SF of space.

Wachovia Securities Real Estate, Conducted Phase I ESA's conforming to ASTM standards for various commercial shopping center properties located throughout the city of Houston, Texas.

American Tower Corporation, Performed Phase I ESA's conforming to ASTM standards for various raw-land proposed tower sites located in Maryland, West Virginia, Pennsylvania, and Ohio. In addition, research was conducted as part of a FCC/NEPA compliance checklist for each site.

UST Compliance and Construction Management

USPS, Eastern Division, Performed Project Management for a 10,000-gallon gasoline UST removal project. The project included tank removal, associated lines and dispenser removal, and complete surface restoration. Project complied with WV 33CSR30 and US EPA 40 CFR part 280 regulations until closure was obtained.

Wal-Mart Stores, Inc. Performed Project Management for Oil Water Separator (OWS) removal and replacement project in Parkersburg, WV. The project demanded thorough communication with the Mineral Wells PWS and WV DEP. The project involved trenching 300 ft to an existing sanitary sewer line, removing the initial OWS and replacing with a new state of the art Highland Tank OWS . After excavation, soil was checked for contamination with a Photo Ionization Detector (PID) and sampled via WV DEP UST regulation protocol.

Wal-Mart Stores, Inc. Performs Project Management for routine maintenance and repairs of storm water systems for 45 facilities in SW Pennsylvania and North Central West Virginia. Repair projects include: excavating sediment, channel design and construction/maintenance, erosion control, detention pond design and construction/maintenance.

Zurich North American Insurance Company, Performs claim investigations on behalf of the insurer for UST/AST/Petroleum release cases. Corresponds with WVDEP representatives to achieve closure status for the owner(s). Review costs incurred for cleanup or compliance at reported release sites for reasonableness of industry standards.

Asbestos and Lead-Based Paint

Hellmuth, Obata & Kassabaum, PC, Performed a complete hazardous building materials inspection and abatement specification and on-site project monitoring for "Brooks Hall Demolition/Renovation Project" at West Virginia University. The 110,000 GSF building was abated of ~48,000 SF of floor tiles and mastics, ~14,000 LF of TSI pipe insulation and (8) 55 gallon drums of mercury contaminated construction waste.

Perfido & Weiskopf Architects, Performed a complete hazardous building materials inspection and abatement specification for "Brook Tower Renovation Project" at West Virginia University. Brook Tower residential complex is one of three main dormitories on West Virginia University's Evansdale campus.

IKM Architects, Performed a complete hazardous building materials inspection and abatement specification and on-site project monitoring for "White Hall Demolition/Renovation Project" at West Virginia University. The 130,000 GSF building was abated of ~38,000 SF of floor tiles and mastics, ~21,000 LF of TSI pipe insulation and (6) 55 gallon drums of mercury contaminated construction waste.

West Virginia University, Planning Design and Construction-Engineering Science Building, Performed asbestos abatement project management that included an asbestos building inspection, asbestos abatement design, and project oversight including air clearance monitoring and analysis for the "Galli Laboratory Renovation Project". Worked closely with WVU Planning Design and Construction to coordinate work around contractors working in the area. The abatement consisted of 3,000 LF of pipe

insulation, 3,500 SF of floor tile/mastic, 1,600 SF of ceiling tile, and 1 ton of heavy metal containing fly ash. The project was completed on time and under budget.

West Virginia University, Physical Plant-Allen Hall, Performed asbestos abatement project oversight and air monitoring duties for the "8th Floor Hearing Laboratory Renovation Project". Worked closely with the Dean to conduct operations around building occupants. The abatement consisted of 4,400 SF of spray-applied fireproofing, and was conducted by West Virginia University's trained asbestos crew.

West Virginia University, Environmental Health & Safety-Percival Hall, Performed air monitoring throughout building for annual surveillance and emergency operations and maintenance activities.

West Virginia University, Physical Plant-School of Law, Performed an asbestos building inspection with a conceptual cost estimate for abatement of all asbestos containing materials. Worked closely with the Dean and faculty to conduct the inspection without hindering any of the buildings activities.

Earth Technologies Incorporated-Pentagon, Arlington Va., Performed project supervision of I.H. services for the "Navy Wedge 4 Renovation Project". Supervised quality control of PCM on-site laboratory and assisted with safety risk assessments. The abatement consisted of 20,000 tons of hazardous material waste and was completed in 90 days using 60 abatement workers.

Northside Associates, Pittsburgh Pa., Performed lead based paint inspections/risk assessments at 300 scattered single-family dwellings following HUD regulations. Annually performs reevaluations for lead dust and deteriorating paint. Conducts visual and clearance dust wipe testing after lead paint maintenance activities.

Mistick Construction-Clariton Housing Projects, Performed lead based paint inspections/risk assessments and asbestos building inspections for a 210-unit apartment building following HUD and EPA guidelines. Developed an abatement design plan for hazardous materials abatement and performed project oversight.

Matthew R. Van Patten, PE, CHMM, CEM
Project Director

Mr. Van Patten is a Professional Engineer knowledgeable in all aspects of facilities engineering with an emphasis on environmental issues. He has first hand experience in all phases of design and construction from conceptual submissions through final punch list. His specialty is environmental projects and regulations that impact facility owners including underground storage tanks (USTs), storm water and waste water discharge, asbestos, lead paint, indoor air quality, hazardous waste management, spill response, and other concerns. Currently, he manages the Consulting Service Group at Apex's Headquarters office.

EDUCATION

- B.S., Civil Engineering, Oregon State University, 1986

PROFESSIONAL REGISTRATIONS/ CERTIFICATION/ TRAINING

- Professional Engineer VA #022490 (6-25-1991)
- Professional Engineer MD #2147291 (7-7-1996)
- Professional Engineer KY #23946 (12-6-2004)
- Professional Engineer WV #014669 (11-6-2000)
- National Council of Examiners for Engineering and Surveying #26795
- Certified Hazardous Materials Manager #7824
- Certified Energy Manager #007084/1999
- 40-Hr. HAZWOPER (9/27/98)
- Land Surveyor-in-Training, Oregon
- 8-Hr. HAZWOPER Refresher (2005)
- Working Over or Near Water (OSHA 29 CFR 1926.1006) 2005
- CPR /First Air (2004)

GENERAL EXPERIENCE

1994 to Present **Director, Apex Environmental, Inc., Rockville, Maryland.** Provides Environmental Engineering expertise in environmental site investigations and remediation, conceptual design remediation strategies, and management of remediation programs. Responsible for management and technical aspects associated with various health and safety projects including: Asbestos abatement monitoring, asbestos surveys, and health and safety audits.

1990 to 1994 **Civil Engineer, Georgetown University.** Responsible for environmental regulations compliance, project management, and consulting civil engineering services for the Division of Facilities.

1986 to 1990 **Advanced Technology Inc.** Provided facilities engineering and management consulting services to government clients.

PROJECT EXPERIENCE

West Virginia University, Charlestown, WV. Project Manager and engineer for the design of the abatement of 125,000 sf of acoustical asbestos material from the dome of WVY Coliseum. The project in this 14,000 seat facility included the design of scaffolding and abatement procedures to remove the

material. In addition to the design, prequalification bidding, construction administration, and abatement monitoring services were performed. The overall budget on this project exceeded $12 million.

Goucher College, Baltimore, MD. Provides hazardous material abatement construction management services to Goucher Colleges. Services include initial surveys, project design, coordination with construction manager, and monitoring of abatement activities. Projects have involved over 200,000 sf of asbestos and lead paint abatement, hazardous materials removal from science buildings and removal and decontamination of PCB containing transformers.

George Washington University, Washington, DC. Provides ongoing environmental health and safety consulting services to the Division of Facilities on a wide range of issues. Projects have included preparation of SPCC Plans, Hazardous Material Surveys, Clean Air Act Title V permit application, and ambient air modeling for ozone impact.

Stormwater Basin Assessment and Routine Maintenance for Multiple Locations Wal-Mart, Nationwide, Chief Engineer. Responsible for the inspections and engineering of corrective measures for BMPs in over 8 states. Developed inspection protocols and procedures for performing both initial and regular inspections using handheld computers to record field observations. When inspections discover problems with original designs, Mr. Van Patten is responsible for overseeing the design of corrective action. Engineering projects have included dam repairs, installation of new spillways, reconfiguring ponds, and altering risers. Engineering is being completed by Apex's in-house engineering staff.

Emergency Response, American University, Washington, DC, Project Manager. Managed the emergency response, investigation, and remediation of arsenic contaminated soil at a local university. The site was formerly used as a munitions test facility during World War I. Activities took place under a Health and Safety plan that accounted for the contaminates and unexploded ordinance. Over 40 tons of contaminated soil was removed from the site as part of the remediation.

Asbestos Support, Private University, New York, Project Manager. Managed the surveying and asbestos program development for a major university. Over 8 million s.f. of building were surveyed and input into ***HAZcad®***. An overall program is being developed to manage the asbestos in place, including coordination with planners, surveyors and maintenance activities.

Environmental Engineering Support, U.S. Postal Service, D.C. Capitol Area. Overall Program Management for IQC for Environmental Services with the USPS – Eastern Facilities Office. For USPS facilities in MD, DC, WV and VA, Apex has performed and completed environmental compliance audits, indoor air quality assessments including mold evaluations, subsurface contamination assessments, underground storage tank evaluations, removals, and upgrades, asbestos and lead based paint surveys, abatement designs, and third party monitoring, SWPPP Plans, and corrective action plans.

- Preparation of an environmental assessment required under 39 CFR, Part 112. The assessment resulted in on "Finding of No Significant Impact (FONSI)" which allowed the USPS to proceed with planned construction.
- Performed over 200 asbestos containing material/lead-based paint/radon surveys for the Baltimore District in support of the National Information System Upgrade. Provided reports and training to maintenance personnel. Facilities included the one million sf Baltimore Plant.
- Performed over 50 asbestos and lead based paint surveys for the Capital District. Provided electronic version of reports that were compatible with the USPS environmental management system. Provide asbestos design and monitoring services for numerous projects.
- Performance of Phase I environmental assessments on numerous properties that were acquired by the USPS.

- Performed indoor air quality investigations and dust evaluations at Baltimore Plant and Distribution Center.
- Responded to release of automatic transmission fluid at the Suburban VMF.
- Prepared SPCC Plans and SWP3 Plans for the Merrified Plant and VMF.
- Performance of UST compliance audits for the Baltimore and Capitol Districts.
- Performance of 34 Environmental Quality Assurance reviews for facilities in the Capitol District.
- Managed 15 energy audits at main facilities within the Northern Virginia District.
- Provided UST consulting services for USPS facilities in Denton, Chestertown, and Centerville, MD.

Environmental Engineering Support, U.S. Postal Service, Mid-Atlantic Area. U.S. Postal Service, Mid-Atlantic Area. Provided environmental engineering services to the U.S. Postal Service Mid-Atlantic Area Environmental Compliance Program for four years through a contract with the Greensboro Purchasing and Materials Service Center. Specific project include:

- Developed an underground storage tank inventory protocol and management system that allowed the mid-Atlantic area to determine compliance with UST regulations. This program was recognized by USPS headquarters as a cost-effective efficient program to determine compliance issues. Over 4,500 facilities were involved.
- After Hurricane Floyd, Apex responded to flood devastated areas in Franklin, VA and Rocky Mount, NC to addressed mail contaminated with mold and contaminated water. Work with USPS to develop a plan for decontaminating the mail prior to delivering to customers. Over 20,000 pieces of mail were decontaminated.
- Performed over 300 asbestos and lead-based paint surveys for USPS facilities in the Appalachian District.
- Performed Environmental Quality Assurance Reviews (EQARs) at numerous facilities in the area.
- Developed/revised USPS Standard Design Criteria to incorporate "Greening" guidelines.
- Assisted in development of USPS Environmental Management Information System (EMIS).
- Performed water use assessments at larger plants to determine potential for reducing water consumption.
- Managed the comprehensive audit of air compressor systems at 19 major USPS facilities.
- Developed a database containing energy usage, utility provider, account number and facility information for all facilities within the Mid-Atlantic Area
- Prepared quarterly environmental newsletter.

Value Engineering Support, PMSI, Environmental/Civil Engineer. Participates in Value Engineer workshops for a variety of projects on a task order basis. The following projects have been completed:

- Renovation of the New EPA Headquarters in the District of Columbia. Value engineering was performed at the conceptual and tentative phases for this $130 million renovation project. Over $5 million in value engineering recommendations were made and accepted by GSA with respect to environmental issues. Overall, $15 million in value engineering recommendations were made by the value engineering team and implemented by GSA.
- Environmental Restoration of the J-Field at the Aberdeen Proving Grounds. The project involved the delineation and removal of selective contamination and the placement of a soil CAP. Overall, $3 million in value engineering recommendations were made by the team.
- Record of Decision Implementation, Southern Maryland Wood Treatment Facility - The project involved thermal desorption of PAH contaminated soil, ultraviolet treatment of

contaminated groundwater and overall site restoration. Overall, $5 million in value engineering recommendations were made by the team.

- New US Embassy, Belmopan, Belize – The project was a completely new complex involving multiple buildings. Provided Civil engineering evaluations of site work, stormwater control and LEEDs evaluation.

Program Manager Support, U.S. Postal Service, Metropolitan Area. Providing overall program management and quality assurance for numerous industrial hygiene projects in the metropolitan area. Ensure consisting with other USPS areas and the National electronic submission requirements.

Computer Training, ITC, Environmental Compliance Expert. Provided environmental expertise in the development of an interactive computer training course on environmental awareness. The course is a PC-based program which combines video, audio, graphics, and text media into a single platform for training purposes. Course material included an overview of the RCRA, CERCLA, TOSCA, EPCRA, Clean Air Act and Clean Water Act.

Environmental Program Management, Georgetown University, Washington, D.C., Environmental Engineer. Established and oversaw Georgetown University's environmental program at Georgetown University in the District of Columbia. Was responsible for all hazardous waste management issues for the design and construction department. Performed hazardous waste investigations prior to the construction of all projects which included the investigation of PCBs, VOCs, and heavy metals. Designed remediation systems to address various concerns including PCBs, mercury, and other hazardous materials.

- **Developed Asbestos Management Program.** Managed an annual asbestos abatement and Operations and Maintenance program of approximately $1,000,000. Projects varied in size and complexity and were completed in the Hospital, dormitories, classroom facilities, and research labs. The majority of the projects were completed while the buildings remained occupied and operational. This program has maintained a high level of performance and safety record while always completing the projects within the tight constraints given.
- **Developed University's Underground Storage Tank Program.** Managed approximately 16 tanks under this program including eight (8) tank closures, four (4) tank installations, and three (3) remediation sites.
- Wrote the original **Conceptual Corrective Action Plan for Georgetown University** which was approved by the District of Columbia for remediation of soil and ground water contaminated with VOCs and PAHs. Designed and managed construction of the system. Oversaw the installation of utilities through the site to ensure health and safety and operation of the bioremediation system.
- **Managed Georgetown University's wastewater and storm water discharge permitting system.** This includes annual testing and reporting, and the design and construction of storm water quality structures.
- **Managed Bioremediation Project.** Managed the investigation, design and installation of the first successful bioventing system in the District of Columbia. The system used a hybrid process of soil vapor extraction to remediate a petroleum-impacted site to level acceptable for closure. Responsibilities included air and construction permitting, design of well installation, and bioventing system, management of construction and operation of system.
- **Performed as Technical Manager for a Screening Analysis** for a proposed 1,000 car parking facility. Analysis used computer modeling to forecast emissions levels of facility.
- **Managed University's UST Construction Projects.** Technical Manager for numerous underground storage tank removals, replacements and remediations for various clients. Projects include:

- Installation of two 30,000-gallon USTs in conjunction with ongoing bioremediation of fuel oil contaminated ground water and soil.
- Replacement of six USTs at a local university including site investigation and remedial services.
- Design and replacement of two 12,000-gallon USTs in the basement of a downtown retail building.

AFFILIATIONS

- American Society of Civil Engineers
- APPA: The Association of Higher Education Facilities Officers
- Association of Energy Engineers
- Institute of Hazardous Materials Management